This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) Use of at least one of the substrates selected from the group consisting of FDP, DDAO, DiFMUP, ELF®39 phosphate and ELF®97 phosphate A method for the detection, characterization and qualitative and/or quantitative determination of the activity of a phosphoamidase, comprising hydrolyzing a phospho-ester bond (P-O) of at least one of the substrates selected from the group consisting of FDP (fluorescein diphosphate), DDAO (9H-(1,3-dichloro-9,9-dimethyl-acridin-2-one-7-yl)phosphate), DiFMUP (6,8-difluoro-4-methylum-belliferyl phosphate), ELF®39 phosphate (2-(2'-phosphophenyl)-4-(3H)-quinazolinone) and ELF®97 phosphate (2-(5'-chloro-2'-phosphophenyl)-6-chloro-4-(3H)-quinazolinone).
- 2. (Currently Amended) The use A method of claim 1 wherein the phosphoamidase is a protein phospho-amidase.
- 3. (Currently Amended) The use A method of claim 2 wherein the protein phosphoamidase is a protein histidine phosphoamidase (PHP).
- **4.** (Currently Amended) The use A method of claim 3 wherein the protein histidine phosphoamidase is PHP1.
- 5. (Currently Amended) A method for the identification of an inhibitor or activator of a phosphoamidase comprising the steps:
 - a) establishing a sample comprising a phosphoamidase and a test substance,
 - b) administering a substrate selected from the group consisting of FDP, DDAO, DiFMUP, ELF®39 phosphate and ELF®97 phosphate to the sample,
 - c) detecting the signal produced by the hydrolysis of the phospho-ester bond (P-O) of the substrate, and
 - d) identifying the test substance as an activator or inhibitor of the phosphoamidase by comparing the signal produced in the sample comprising the test substance with the signal produced in a control sample comprising no test substance.

- **6.** (Withdrawn) A method for the identification of the activity of a phosphoamidase in a electrophoresis gel or on a blot membrane comprising the steps:
 - a) separating a sample comprising a phosphoamidase in a gel
 - b) if necessary, renaturation of the phosphoamidase
 - c) incubating the gel or the blot membrane resulting from blotting the gel with ELF®39 phosphate and/or ELF®97 phosphate as substrate, and
 - d) detecting the signal produced by the substrate
- 7. (Withdrawn) A method for the determination of the specifity of an inhibitor or activator for a certain phosphoamidase or phosphatase comprising the steps:
 - a) separating a sample comprising several phosphoamidases and/or phosphatases in a gel
 - b) if necessary, renaturation of the phosphoamidase
 - c) incubating the gel or the blot membrane resulting from blotting the gel with the inhibitor or activator and subsequently with ELF[®]39 phosphate and/or ELF[®]97 phosphate as substrate, and
 - d) determining the specificity of the inhibitor or activator by comparing the signal produced in the gel or blot membrane incubated with the inhibitor or activator with the signal produced in a control gel or blot mambrane not incubated with the inhibitor or activator.
- 8. (Original) A method according to claim 5 wherein the phosphoamidase is a protein phosphoamidase.
- 9. (Original) A method according to claim 8 wherein the protein phosphoamidase is a protein histidine phosphoamidase.
- **10.** (**Original**) A method according to claim 9 wherein the protein histidine phosphoamidase is PHP1.